

Raghav Sethi

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EXPERIENCE

Backend Software Engineer (Full-time)

May 2022 – Nov 2023

Faire Wholesale Inc. | Waterloo, ON

- Engineered and optimized high-performing APIs, enabling thousands of calls per minute with minimal latency, leading to a 40% increase in overall system throughput serving user base of 100k Brands & 500k Retailers.
- Co-acted with design teams to translate complex design specifications into efficient API functionalities, resulting in a 20% enhancement in user engagement and a 15% increase in customer satisfaction.
- Revamped the conventional banner notification system by spearheading the development of a Kotlin-based notification feature, integrating Hibernate ORM for MySQL resulted in a 20% efficiency boost, collaborating with designers and frontend engineers for seamless React integration.
- Implemented custom Datadog dashboards to track and analyze key performance metrics, including error rates, throughput, and database query execution times while facilitating health monitor meetings leading to a 25% improvement in system reliability and a 20% decrease in incident response times.

Frontend Software Developer (Co-op)

Sept 2020 – Dec 2020

MappedIn Inc | Waterloo, ON

- Designed and developed 2+ pages every day for the company's website using Figma and built with Gatsby & React.
- Collaborated with Marketing and Sales teams to bring the latest content to the website improving SEO by 50%.
- Created company's virtual escape room game with 10+ puzzles for social activities.

Full Stack Web Developer (Co-op)

Jan 2020 – Apr 2020

LumenEd | Kitchener, ON

- Deployed BigBlueButton on test servers (AWS, DigitalOcean) and customized the functionality using Ruby on Rails.
- Optimized SQL queries to retrieve the data 80% faster in admin dashboard.
- Written python/bash scripts to generate various user statistics from server logs in csv, XML, txt formats.
- Developed a booking system (Tutor Marketplace) using WooCommerce and resizing it to company needs.
- Customized website using HTML5, CSS, SASS, JavaScript, jQuery, PHP for tutors' marketplace and tutor partners.

Instructional Support Assistant (ISA) CS247/246/137/136/115 | Math 647 (Co-op)

Sept 2018 – Dec 2019

David R. Cheriton School of Computer Science | Waterloo, ON

- Facilitated student learning & understanding (relating OOP C++/Python, Software engineering design patterns, Algorithms, Data Structures, Pointers, Memory Management etc.) during lectures, tutorials & answered questions.
- Created testing scripts to test over 900 code submissions, marked assignments/projects and provided constructive feedback for all aspects of code correctness/quality.
- Designed new course webpage (Bootstrap, JS) for CS115/247, improving overall aesthetics and utility of webpage for students and course staff.

Private Tutor | Computer Science / Mathematics / Statistics

Sept 2018 – Present

Private | Waterloo, ON

- Conducting code reviews for 10+ students per day, focusing on code correctness, efficiency, and readability.
- Curating 3+ example code in Java/Python/C++ depicting various programming concepts to improve learning.
- Managing 20+ students per week with different study schedules and learning habits.
- Assisting students in 10+ courses including compiler construction, OOP, algorithms & data structures, competitive programming, databases, linear algebra, calculus, statistics, LP optimization etc.

EDUCATION

Bachelor of Mathematics (Co-operative Program)



- Majors in Combinatorics & Optimization
- Majors in Computational Mathematics
- Minors in Computer Science
- Majors in Geomatics

Diploma in Excellence in GIS (Geographical Information Systems) | University of Waterloo

Leadership Certificate Program (Credential ID C000001529) | University of Waterloo